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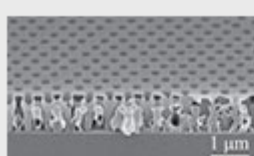
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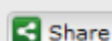
Thursday, October 15, 2015

## Nano-Engineered Film Has Refractive Index Near 1



A thin film with a refractive index close to that of air could be used to make photonic devices more efficient and mechanically stable. "By manipulating the structure of the aluminum oxide, which is dielectric, we've improved both its optical and mechanical properties," said North Carolina State University professor Chih-Hao Chang.

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## FEATURED VIDEO



**CLYDE TROUTMAN**  
ENGINEERING MANAGER, 3SAE

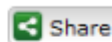
### 3SAE Lens Forming Station

The Lens Forming Station (LFS) allows users to easily optimize a recipe to achieve a desired ball lens diameter utilizing 3SAE's glass processing control software by setting the target diameter and arc controls. All adjustable parameters can easily be locked out, offering simple "one button" control to the operator while allowing ultimate customization of recipes from an engineer level.

## Investor Group Criticizes Rofin, Plans to Nominate Directors

Rofin-Sinar Technologies Inc. is downplaying criticisms from an investor group that claims the industrial laser manufacturer is mismanaged.

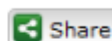
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## German Partnership Brings OCT, Laser Transfer Printing to Hearing Aids

Seven businesses and a nonprofit research institute have partnered to improve the functionality and comfort of hearing aids through light-based imaging and manufacturing technologies.

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## Featured Products



### Ultra-Narrow Filters

Alluxa

Alluxa's ultra-narrow filters, for applications such as laser clean up, LIDAR, telecommunications and instrumentation, offer the narrowest and "squarest" filter profiles in the visible and NIR with very high transmission levels typically greater than 96%.

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### Save on New Lab Optics & Mounts

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### Mini and Micro Lens Elements

Argyle International

Argyle has added a series of miniature and micro lens elements to its diverse line of custom optics. Lens designs range from single and double convex, single and double concave, meniscus, rod lenses, and rod doublets and triplets.

[More info >>](#)



### Window Protection Shades & Blocks

Kentek Corporation

Kentek's laser safe window protection shades and blocks are made-to-measure for virtually every shape and size window. Shades come on clutch-driven roller assemblies and will retract quickly and neatly.

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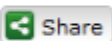
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### Design Presents Cheaper Alternative for 2-µm Fiber Lasers



A new fiber laser design eliminates a costly component that had been necessary to generate beams around 2 µm, a band useful for surgery, materials processing and atmospheric study.

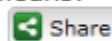
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### Harvard Spinoff to Commercialize Superresolution Microscopy Alternative

The techniques use complementary DNA strands to attach fluorescent dyes to the objects to be visualized. The time the DNA strands stay connected can be tuned based on their nucleotide sequences. This controls the fluorescence, which allows targets to be localized with higher precision than would be possible by other means.

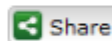
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### Profits Up at Exfo Despite Currency Concerns

The company said its decreased revenues resulted from unfavorable currency conversion rates. Sales decreased 3.8 percent to \$222.1 million in fiscal 2015 from \$230.8 million in fiscal 2014, but were stable year over year on a "constant currency" basis, the company said.

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### Marissa Edmund Named VP of Sales at Family Optics Company

Edmund Optics Inc. has appointed Marisa Edmund, granddaughter of founder Norman Edmund, as its executive vice president of global sales and marketing.

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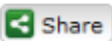


### Food Waste Transformed into LEDs



Researchers created light-emitting carbon dots via solvothermal synthesis, where waste was placed into a solvent under pressure and high temperature for 30 to 90 minutes. In this case, the raw materials were soft drinks and pieces of bread and tortilla.

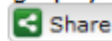
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### VCSELS Enable Deeper Brain Imaging

Vertical-cavity surface-emitting lasers (VCSELS) are enabling this deeper look by increasing the sensitivity of swept-source optical coherence tomography (SS-OCT).

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## Industry Events

### Vision in Life Sciences Conference - Nov. 19, 2015 - San Diego, CA



Presented by AIA, this inaugural one-day event will feature industry experts discussing CCD and CMOS sensors, microscopes, lighting, filters and software for imaging in the life sciences.

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